ECS Configuration Change Request

Page 1 of 3 Page(s)

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Rm #:	7. Dept.
Gary Lake	5/16/2000	00-0546	—	301-614-5751	N126-6	Sys Eng.

8. CCR Title: DUE to Collect Daily Archive Volume Statistics

9. Originator Signature/Date		10. Class	11. Type:	12. Need Date: May 19, 2000
Gary Lake 5/9/2000		II	CCR	

13. Office Manager Signature/Date	14. Category of Change:	15. Priority: (If "Emergency" fill in Block 28).
Gary Roth 5-9-00	Initial ECS Baseline Doc.	Routine

16. Documentation/Drawings Impacted: None	17. Schedule Impact:	18. CI(s) Affected: PLS

19. Release Affected by this Change: 5A	20. Date due to Customer:	21. Estimated Cost: None - Under 100K

22. Source Reference: ☐NCR (attach) ☐Action Item ☐Tech Ref. ☒GSFC ☐Other:

23. Problem: (use additional Sheets if necessary)
We do not have a storage location for recording daily archive volume statistics.

(THIS DUE IS FOR POSSIBLE INCORPORATION INTO THE M&O BASELINE, AND IS AVAILABLE FOR USE AT OTHER DAACs.)

24. Proposed Solution: (use additional sheets if necessary)
One new table will be added to the mss_acct_db database to store data on the volume of data in the g0drg01 and g0drg02 archives. A function will be written to compute the volume of data in the archives. The function uses a filtered AMASS report as a source of data. After the volume is computed, the value is incorporated into a Transact SQL insert statement which stores the data into the new database table. The name of the file containing this function is included in a record to be added to the crontab with specifications that cause it to be executed once a day by cron.

25. Alternate Solution: (use additional sheets if necessary)
The data can be collected daily by a similar function and manually copied to a spreadsheet for storage outside of the system, but then the data is not available to future interface software for display or query by management or operations personnel.

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
The data will continue to be stored in an Excel spreadsheet in a manual process, but it is subject to disruption if mail communications should be interrupted.

27. Justification for Emergency (If Block 15 is "Emergency"):

28. Site(s) Affected: ☐EDF ☐PVC ☐VATC ☐EDC ☒GSFC ☐LaRC ☐NSIDC ☐SMC ☐AK ☐JPL ☐EOC ☐IDG Test Cell ☐Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date):	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
33. M&O CCB Chair (Sign/Date): 5-31-00	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
34. ECS CCB Chair (Sign/Date):	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS

CM01JA00   ECS/EDF/SCDV/M&O

ORIGINAL

ADDITIONAL SHEET

CCR #: *00-0546* **Rev:** — **Originator:** Gary Lake

Telephone: 301-614-5751   **Office:** N-126-6

Title of Change: DUE to Collect Daily Archive Volume Statistics

The following Sybase Transact SQL code causes the creation of two new tables that are to be added to the pdps database. They will store daily production statistics and production logging information. The production statistics will be computed from the PIDprMetrics table, a GDAAC unique extension. It will be necessary at a subsequent time to create a GUI for both tables.

```
isql -Uanonymous -Panonymous -Sg0mss21_srvr -oArchiveVolumeOut
use mss_acct_db
go
IF OBJECT_ID("MsArArchiveVolume") IS NOT NULL
BEGIN
  DROP TABLE  PIDprMetrics
END
go

create table MsArArchiveVolume
(
ArchiveID varchar(20) NOT NULL,
ObservationDate datetime NOT NULL,
Volume double precision NOT NULL,
primary key (ArchiveID, ObservationDate)
)
go
```

The following procedure causes the cron demon to execute the file that triggers the stored procedure that inserts new records into the database tables. A copy of the following two procedures is stored on both g0drg01_srvr and g0drg02_srvr.

```
#!/bin/ksh
#
#    Name:  getvolume
#    Author:  Gary Lake
#    revised: 04/21/2000

archivevolumeinput | archivevolumeinsert

#!/bin/ksh
#
#    Name: archivevolumeinput
#    Author: Gary Lake
#    revised 05/08/2000
#
/usr/amass/bin/amassreport -P -a ">06/01/1999" | awk '{if($13 != "") {s += $13}} END {print s}'
```

The following procedure is stored on g0drg01_srvr.

```
#!/bin/ksh
#
#    Name: archivevolumeinsert
#    Author: Gary Lake
#    revised: 05/08/2000
#
isql -Uanonymous -Panonymous -Sg0mss21_srvr <<EOF
```